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1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/991,152B

DATE: 04/17/2003

TIME: 14:23:10

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\04172003\I991152B.raw

3 <110> APPLICANT: Metabolix, Inc.
 4 Aquin, Stephanie
 5 Peoples, Oliver P.
 6 Snell, Kristi D.
 8 <120> TITLE OF INVENTION: PRODUCTION OF MEDIUM CHAIN LENGTH POLYHYDROXYALKANOATES FROM
 FATTY ACID
 9 BIOSYNTHETIC PATHWAYS
 11 <130> FILE REFERENCE: MBX 041
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/991,152B
 C--> 13 <141> CURRENT FILING DATE: 2001-11-16
 13 <160> NUMBER OF SEQ ID NOS: 15
 15 <170> SOFTWARE: PatentIn version 3.1
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 20 <213> ORGANISM: artificial sequence
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: primer phaGF-EcoRI
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 34 <220> FEATURE:
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 37 <400> SEQUENCE: 2
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 42 <211> LENGTH: 49
 43 <212> TYPE: DNA
 44 <213> ORGANISM: artificial sequence
 46 <220> FEATURE:
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 49 <400> SEQUENCE: 3
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 54 <211> LENGTH: 30
 55 <212> TYPE: DNA
 56 <213> ORGANISM: artificial sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: primer Posyn1-nrSacII
 61 <400> SEQUENCE: 4
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82 <220> FEATURE:
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118 <220> FEATURE:
119 <223> OTHER INFORMATION: PhaG in the bacterial expression construct pMTX-PhaG
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128 acgtggttct gttcgaccag ccgtattcag gcaagtccaa gccgcacaac cgtcaggaac          240
130 ggctgatcag caaggagacc gaggcgcata tcctccttga gctgatcgag cacttccagg          300
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148 tggagaacaa gaccgcctgc gagaacaccc gcaatgtcat gctgggcttc ctcaagccaa 840
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construc

162 t pKPS1.2N

164 <400> SEQUENCE: 10

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169 cggcacgcac cgtgctgctg caggccgtgc gccaacgcgt gcacagcgcc aagcatgtgg 180
171 cccacttttg cctggagctg aagaacgtgc tgctgggcaa gtccagcctt gccccggaaa 240
173 gcgacgaccg tcgcttcaat gaccggcgtg ggagcaacaa cccactttac cgccgctacc 300
175 tgcaaaccta tctggcctgg cgcaaggagc tgcaggactg gatcggcaac agcgacctgt 360
177 cgccccagga catcagccgc ggccagttcg tcatcaacct gatgaccgaa gccatggctc 420
179 cgaccaacac cctgtccaac ccggcagcag tcaaacgctt cttcgaaacc ggcggcaaga 480
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227 <213> ORGANISM: artificial sequence

229 <220> FEATURE:

230 <223> OTHER INFORMATION: plasmid pSU-PhaCp.o.trc.PhaG

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237 cggcacgcac cgtgctgcgc caggccgtgc gccaaaccgt gcacagcgcc aagcatgtgg      180
239 cccactttgg cctggagctg aagaacgtgc tgctgggcaa gtccagcctt gccccggaaa      240
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263 gtgcctgctc cggcggcac acctgcacgg cattggctcg ccaactatgc gccctcggcg      960
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299 ctgttcgacc agccgtattc aggcaggtcc aagccgcaca accgtcagga acggctgatc     2040
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319 aagaccgcct gcgagaacac ccgcaatgtc atgctgggct tcctcaagcc aaccgtgcgt     2640
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329 <213> ORGANISM: artificial sequence
331 <220> FEATURE:
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377 ctggagacgt ggctaccata gattcggacg gtttcatgac aatctgtgat cgtgcaaagg      1320
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381 cgcacctca tattgttgat gctgctgtta tagctgcaag gcacgaaaaa tgggacgagc      1440
383 gacctctcct catcgcagtt aaatccccta attcggaatt aacaagtggg gaggtatgta      1500
385 attatttcgc agataagggt gctagatggc aaattccaga tgccgctatc tttgttgaag      1560
387 aactgccacg caatggtact ggcaagattt tgaagaatcg tttgcgcgag aaatatggtg      1620
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395 <213> ORGANISM: artificial sequence
397 <220> FEATURE:
398 <223> OTHER INFORMATION: alkK in the plant expression construct pUC-C4PPDK.TS.AlkK
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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date